Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_

Pre-Test on Cell Processes

1. What are the three types of passive transport?
   1. Simple diffusion, acid diffusion, and Osmosis.
   2. Osmosis, Facilitated diffusion, and base diffusion.
   3. Simple diffusion, Facilitated diffusion, and Osmosis.
2. Osmosis is the movement of \_\_\_\_\_\_\_\_ across the cell membrane.
   1. Sugar
   2. Water
   3. Potassium Ions
3. In active transport the particles move from \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_ concentration.
   1. Low, high
   2. High, low
   3. Don’t move
4. When a cell has more water inside the cell than outside it is called a(n) \_\_\_\_\_\_\_\_\_\_ cell.
   1. Hypertonic
   2. Hypotonic
   3. Isotonic
5. How many types of proteins are there in the cell membrane?
   1. Five
   2. Four
   3. Three
6. Peripheral proteins are found where in/on the cell membrane?
   1. The outside
   2. The inside
   3. Crosses both layers
7. What are carbohydrates made up of?
   1. Amino acids
   2. Sugars
   3. Fats
8. What is another name for lipids?
   1. Sugars
   2. Fats
   3. Carbohydrates
9. Transpiration is the process where the \_\_\_\_\_\_ of water vapor through stomata of a leaf occurs.
   1. gain
   2. loss
   3. majority
10. \_\_\_\_\_\_ is the process where plants use light energy to produce food.
    1. Respiration
    2. Metabolism
    3. Photosynthesis
11. Respiration is the process where organisms break down food to release \_\_\_\_\_\_.
    1. Energy
    2. Sugar
    3. Oxygen
12. Fermentation is a form of respiration that converts \_\_\_\_\_\_ from \_\_\_\_\_\_ when oxygen is insufficient.
    1. Glucose; Energy
    2. Energy; Lactose
    3. Energy; Glucose
13. Organisms such as plants are called “Producers” because they use what to produce energy rich sugar molecules?
    1. CO2, H2O, and Sunlight
    2. Sunlight
    3. O2 and CO2
14. A tertiary consumer eats what?
    1. Primary Consumers and Producers
    2. Primary Consumers and Secondary Consumers
    3. Secondary Consumers and Omnivores
15. Decomposers are known for \_\_\_\_\_\_ the system because they return essential molecules to the producers.
    1. Completion
    2. Beginning
    3. Stopping
16. The Carbon Cycle is described as how carbon molecules move between \_\_\_\_\_\_\_ and \_\_\_\_\_\_ world.
    1. Plant; Animal
    2. Living; Non-living
    3. Space; Sky
17. Plant Biotechnology usually means to take a desired trait from a \_\_\_\_\_\_ plant and move it to a \_\_\_\_\_\_ plant.
    1. Domestic; Wild
    2. Extinct; Domestic
    3. Wild; Domestic
18. Genetically Modified Crops are crops in which desired DNA from one organism has been \_\_\_\_\_\_ into the crop to \_\_\_\_\_\_.
    1. Inserted; Diminish
    2. Inserted; Improve
    3. Diminish; Improve
19. Solid biomass accounts for the majority of the energy used by the world today, what are the other two forms of biomass?
    1. Gasohol; Coal
    2. Water; Biogas
    3. Gasohol; Biogas
20. Precision Farming uses technology from satellite images and computers to:
    1. Know exactly how much water and fertilizer to reach a maximum yield.
    2. Know exactly how much water and fertilizer to reach a minimum yield.
    3. Know exactly what their fields look like.